

## Change in Educational Access Measure

In response to input received on the Draft Environmental Impact Statement (DEIS), notably from USEPA, the status of Alternative 1 as non-preferred was reconsidered. Alternative 1 was shown as non-preferred in the DEIS because of its low performance on project goals. As part of this reassessment, the performance indicators used on project goals were reexamined by INDOT. During this reconsideration, assumptions regarding the indicators were reevaluated. As a result of this reevaluation, a change in the indicator for access to education has been made in the FEIS.

This indicator, *Increase in Population Within One Hour of Major Educational Institution*, was used in both the Draft Level 2 Alternatives Analysis Report (dated October 16, 2001), and the DEIS (dated July 22, 2002). For each alternative, this measure estimated (in the Year 2025) the added number of people within one hour of major educational institutions in the Study Area. As was noted in both the above report (p. 17) and the DEIS (Appendix O, *Route Concepts Screening Report*), no Indianapolis area institutions were included in this analysis. No comments were received either from the public or review agencies on this assumption. These documents were the subject of a total of six public hearings/meetings as well as (in the case of the DEIS) a 90-day formal comment period. Even though no comments regarding this assumption were made, INDOT and FHWA concluded, upon further review, that educational opportunities available in Indianapolis should be included in measuring increased access to education.

When the largest institution in Indianapolis is included (Indiana University – Purdue University Indianapolis (IUPUI), enrollment 29,000), virtually all of the Study Area is within one hour of a major educational institution. Thus, in order to assess the increased access to education offered by alternatives, a similar measure has been devised and included in the FEIS.

This measure, *Additional Access Opportunities to Higher Educational Institutions*, considers the added number of students who have one-hour access to each major educational institution within the Study Area. It is computed as follows, as shown in Table JJ-1 at the end of this appendix:

- For each major educational institution (defined as an institution of higher education with an enrollment of at least 5,000), the increase in the number of people who will have new one-hour access to that institution is calculated.
- The cumulative measure for each alternative is the sum of these increases for all major educational institutions. In some cases, the same person is counted more than once; for example a person with new one-hour access to IUPUI may also have new one-hour access to Ivy Tech – Indianapolis. Thus, the total numbers given in the TOTALS row of the table measure the increased number of education choices each alternative provides.

Also included at the end of this appendix is a chart comparing the performance of alternatives on this measure.

Major conclusions from this reconsideration are as follows:

- All alternatives show some increase in access to higher education.
- Every major educational institution in the Study Area is provided increased access by at least one of the alternatives.
- This performance measure provides a similar ranking of alternatives as the method used in the DEIS.
- The Preferred Alternative 3C provides the third highest additional access opportunities to major higher educational institutions of all the alternatives.

By way of comparison, the measure was recomputed for institutions of higher education with enrollments of over 1,000. This calculation is illustrated in Table JJ-2. A comparison of Tables JJ-1 and JJ-2 shows that varying the enrollment threshold for a “major” institution does not cause a significant change in the ranking of alternatives on improving access to education. Varying the threshold causes only four of the alternatives to change their relative ranking. Using a 5,000 enrollment threshold, Alternative 1 ranks 9<sup>th</sup> and Alternative 2A ranks 10<sup>th</sup>; under a 1,000 enrollment threshold, Alternative 1 ranks 10<sup>th</sup> and Alternative 2A ranks 9<sup>th</sup>. Also, under the 5,000 enrollment threshold, Alternative 2C ranks 2<sup>nd</sup> and Alternative 5A ranks 4<sup>th</sup>; under a 1,000 enrollment threshold, Alternative 2C ranks 4<sup>th</sup> and Alternative 5A ranks 2<sup>nd</sup>. The other eight DEIS alternatives have identical rankings under both criteria.

Table JJ-1 - Additional Access Opportunities to Major Higher Educational Institutions (Enrollment over 5,000)															
				Alternative											
Increase in population within 1 hour of:	Location	Type	Enrollment	1	2A	2B	2C	3A	3B	3C	4A	4B	4C	5A	5B
Indiana University	Bloomington	Four Year	38,900	0	0	57,929	294,847	255,896	358,294	373,617	0	57,929	294,847	371,977	377,902
Indiana University - Purdue University	Indianapolis	Four Year	29,000	0	8,034	8,034	36,870	25,097	28,836	59,658	8,034	8,034	36,870	59,658	59,658
Indiana State University	Terre Haute	Four Year	11,300	5,171	0	0	0	0	0	0	0	0	0	0	0
University of Southern Indiana	Evansville	Four Year	9,700	2,848	2,848	2,848	2,848	3,327	3,327	3,327	3,327	3,327	3,327	3,327	3,327
Ivy Tech Vincennes University	Indianapolis	Two Year	7,400	0	0	0	9,624	0	9,624	9,624	0	0	9,624	0	9,624
	Vincennes	Two Year	6,200	113,857	108,490	108,490	108,490	0	0	0	0	0	0	5,350	5,350
TOTALS				121,876	119,372	177,301	452,679	284,320	400,081	446,226	11,361	69,290	344,668	440,312	455,861
Rank for New Measure				9	10	8	2	7	5	3	12	11	6	4	1
Rank for DEIS Measure				10	10	8	6	5	4	3	10	8	6	1	2
Note: Includes all two and four year colleges and universities in study area with over 5,000 students. Enrollment taken from most recently published data.															

Additional Access Opportunities to Major Higher Educational Institutions (Enrollment Over 5,000)

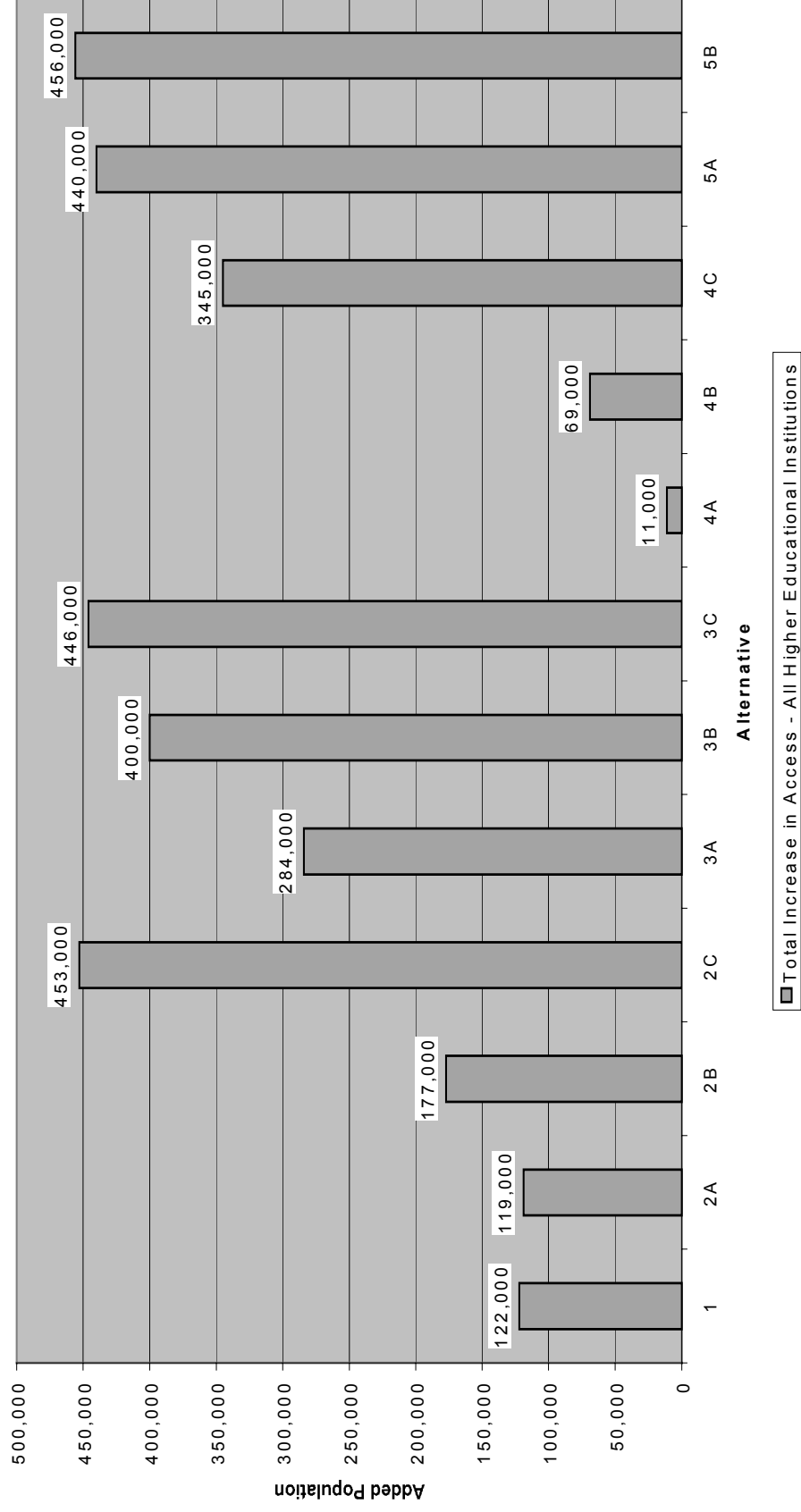


Table JJ-2 - Additional Access Opportunities to Major Higher Educational Institutions (Enrollment Over 1,000)														
Alternative														
Increase in population within 1 hour of:	Type	Students	1	2A	2B	2C	3A	3B	3C	4A	4B	4C	5A	5B
Indiana University	4 yr.	38,900	0	0	57,929	294,847	255,896	337,642	373,617	0	57,929	294,847	417,167	377,902
Indiana University - Purdue University	4 yr.	29,000	0	8,034	8,034	32,632	25,097	24,598	55,420	8,034	8,034	32,632	59,658	55,420
Indiana State University	4 yr.	11,300	5,171	0	0	0	0	0	0	0	0	0	0	0
University of S. Indiana	4 yr.	9,700	2,848	2,848	2,848	2,848	3,327	3,327	3,327	3,327	3,327	3,327	3,327	3,327
Butler University	4 yr.	4,300	0	3,360	0	29,938	2,711	29,938	29,938	3,360	0	29,938	18,581	29,938
University of Indianapolis	4 yr.	3,700	0	0	8,034	98,321	25,097	101,164	98,321	0	8,034	98,321	30,822	107,151
University of Evansville	4 yr.	2,600	740	740	740	740	19,261	19,261	19,261	19,261	19,261	19,261	19,261	19,261
DePauw University	4 yr.	2,300	0	27,736	2,702	6,405	0	0	0	33,879	2,702	6,405	0	0
Rose Hulman Inst.	4 yr.	1,800	5,171	0	0	0	0	0	0	0	0	0	0	0
Oakland City College	4 yr.	1,700	0	0	0	0	22,854	22,854	22,854	23,433	23,433	23,433	15,493	15,493
St. Mary of the Woods	4 yr.	1,500	12,322	0	0	0	0	0	0	0	0	0	0	0
Marian College	4 yr.	1,300	0	15,485	8,034	44,321	53,933	36,287	67,109	8,034	8,034	44,321	121,720	67,109
Franklin College	4 yr.	1,000	0	0	0	27,229	0	26,712	32,699	0	0	27,229	14,567	32,699
Ivy Tech	2 yr.	7,400	0	0	0	9,624	0	9,624	9,624	0	0	9,624	2,083	9,624
Ivy Tech	2 yr.	4,300	5,017	5,017	5,017	5,017	17,312	17,312	17,312	17,312	17,312	17,312	17,312	17,312
Ivy Tech	2 yr.	3,800	9,771	2,711	0	0	0	0	0	0	0	0	0	0
Vincennes University	2 yr.	6,200	113,857	108,490	108,490	108,490	0	0	0	0	0	0	5,350	5,350
Vincennes University	2 yr.	1,300	0	0	0	0	3,337	0	3,337	0	0	0	8,355	8,355
Totals			154,897	174,421	201,828	660,412	428,825	628,719	732,819	116,640	148,066	606,650	733,696	748,941
Rank for Proposed Measure			10	9	8	4	7	5	3	12	11	6	2	1
Rank for Present Measure - DEIS			10	10	8	6	5	4	3	10	8	6	1	2
Note: Includes all two and four year colleges and universities in Study Area with over 1,000 students. Enrollment taken from most recently published data.														